

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Richland
2800 George Washington Way
Richland, WA 99352
Tel: (509)375-3131

TestAmerica Job ID: 300-1594-1
TestAmerica Sample Delivery Group: WC0619
Client Project/Site: X16-015

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600
Mail Stop R3-50
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:
12/8/2015 9:01:39 AM
Steven Campbell, Quality Assurance Assistant
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Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
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I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the attached signature.

The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples. The sample/ sample duplicate RPD agreement is not applicable if one or both results are elss than five times the MDL.



LINKS

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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Chain of Custody	5
Detection Summary	12
Client Sample Results	13
QC Sample Results	14
QC Association Summary	15
Lab Chronicle	16
Method Summary	18
Sample Summary	19
Receipt Checklists	20

Qualifiers**HPLC/IC**

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-015

TestAmerica Job ID: 300-1594-1
SDG: WC0619

Job ID: 300-1594-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1594-1**

Comments

No additional comments.

Receipt

The samples were received on 11/18/2015 12:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 14.5° C.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X16-015-008**
Page 1 of 1

Collector K.C. Patterson CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X16-015	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title Uranium Sequestration - Day 12	Logbook No. HNF-N-506 81 / 43	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		SPECIAL INSTRUCTIONS N/A
Sample No. B33L47	Filter N	Date NOV 18 2015 1133
No/Type Container 1x500-ml P	Sample Analysis 300.0 ANIONS_IC: GW 01	Preservative Cool <=6C
Holding Time 48 Hours	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

#1594
WCC0619



300-1594 COC

December 08 2015

Relinquished By K.C. Patterson	Print <i>[Signature]</i>	Sign	Date/Time NOV 18 2015 1230	Received By <i>[Signature]</i>	Print J. Bock, TARL	Sign	Date/Time NOV 18 2015 1230
Relinquished By CHPRC	Date/Time 1230	Received By	Date/Time	Received By	Date/Time	Date/Time	Date/Time
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time	Date/Time
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time	Date/Time

Matrix *	
S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquids
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X16-015-009
Page 1 of 1

Collector	K.C. Patterson CHPRC		Contact/Requester	WHITLEY, KM		Telephone No.	373-4929	
SAF No.	X16-015		Sampling Origin	Hanford Site		Purchase Order/Charge Code	300205	
Project Title	Uranium Sequestration - Day 12		Logbook No.	HNF-N-506 81 / 43		Ice Chest No.	N/A	
Shipped To (Lab)	TestAmerica Incorporated, Richland		Method of Shipment	GOVERNMENT VEHICLE		Bill of Lading/Air Bill No.	N/A	
Protocol	CERCLA		Priority:	30 Days		Offsite Property No.	N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS			Hold Time		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.			N/A			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Sample Analysis	Holding Time	Preservative
B33151	N	NOV 18 2015	1159	1x500-mL P	300.0 ANIONS_IC: GW 01		48 Hours	Cool <=6C

1594
used 6/19

December 08 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
K.C. Patterson CHPRC			NOV 18 2015 1730	J. Bock, TARL	J. Bock, TARL		NOV 18 2015 1230	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
FINAL SAMPLE DISPOSITION				Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Date/Time



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X16-015-010**
Page 1 of 1

Collector K.C. Patterson CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X16-015	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title Uranium Sequestration - Day 12	Logbook No. HNF-N-506 81/43	Ice Chest No. N/A
Shipped To (Lab) TeslAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		SPECIAL INSTRUCTIONS PRIORITY
Sample No. B331.E5	Filter N	Date NOV 18 2015
	Time 1032	No./Type Container 1x500-ml P
		Sample Analysis 300.0_ANIONS_IC: GW 01
		Holding Time 48 Hours
		Preservative Cool <=6C
		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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W20619

December 08, 2015

Relinquished By K.C. Patterson	Print 	Sign 	Date/Time NOV 18 2015 1230	Received By J. Bock, TARL	Print 	Sign 	Date/Time NOV 18 2015 1230	Matrix *
Relinquished By				Received By				S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By				Received By				DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By				Received By				
FINAL SAMPLE DISPOSITION				Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Date/Time



CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-015-011

Page 1 of 1

Collector K.C. Patterson CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X16-015	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title Uranium Sequestration - Day 12	Logbook No. HNF-N-506 81/42443	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CER/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		SPECIAL INSTRUCTIONS N/A
Sample No. B33159	Filter N	Date NOV 18 2015
	No./Type Container 1x500-mL P	Sample Analysis 300.0_ANIONS_IC: GW 01
	Holding Time 48 Hours	Preservative Cool <=6C

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wcd019

December 08, 2015

Relinquished By K.C. Patterson	Print 	Sign 	Date/Time NOV 18 2015 1230	Received By 	Print J. Bock, TARI	Sign 	Date/Time NOV 18 2015 1230	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X16-015-012**
Page 1 of 1

Collector K.C. Patterson CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X16-015	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title Uranium Sequestration - Day 12	Logbook No. HNF-N-506 81/42	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		
Sample No. B33163	Filter N	Date NOV 18 2015 0857
No./Type Container 1x500-ml P	Sample Analysis 300.0 ANIONS, IC: GW 01	Holding Time 48 Hours
Preservative Cool <=6C	Hold Time N/A	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

*1594
WCD0619*

December 08 2015

Relinquished By K.C. Patterson CHPRC	Print 	Sign 	Date/Time NOV 18 2015 1230	Received By 	Print J. Bock, TARL	Sign 	Date/Time NOV 18 2015 1230	Matrix *
Relinquished By			Date/Time	Received By			Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			Date/Time	Received By			Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X16-015-013

Page 1 of 1

Collector K.C. Patterson CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X16-015	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title Uranium Sequestration - Day 12	Logbook No. HNF-N-506 81/42	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		SPECIAL INSTRUCTIONS N/A
Sample No. B33167	Filter N	Date NOV 18 2015
	* NOV 18 2015	Time 0935
	No./Type Container 1x500-mL P	Sample Analysis 300.0 ANIONS_IC: GW 01
	Holding Time 48 Hours	Preservative Cool <=6C

#1594
WCDL619

December 09 2015

Relinquished By K.C. Patterson CHPRC	Print K.C. Patterson	Sign <i>[Signature]</i>	Date/Time NOV 18 2015 1230	Received By <i>[Signature]</i>	Print J. Bock, TARL	Sign <i>[Signature]</i>	Date/Time NOV 18 2015 1730	Matrix *
Relinquished By			Date/Time	Received By			Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			Date/Time	Received By			Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue W1 = Wipe L = Liquid V = Vegetation X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Collector	K.C. Patterson CHPRC		Contact/Requester	WHITLEY, KM		Telephone No.	373-4929	
SAF No.	X16-015		Sampling Origin	Hamford Site		Purchase Order/Charge Code	300205	
Project Title	Uranium Sequestration - Day 12		Logbook No.	HNF-N-506 81/43		Ice Chest No.	N/A	
Shipped To (Lab)	TestAmerica Incorporated, Richland		Method of Shipment	GOVERNMENT VEHICLE		Bill of Lading/Air Bill No.	N/A	
Protocol	CERCLA		Priority:	30 Days		Offsite Property No.	N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CER/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.			N/A					
Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B33L71	N		NOV 18 2015	1059	1x500-mL P	300.0_ANIONS_IC:GW/01	48 Hours	Cool <=6C

#1594
W30619

December 08 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
K.C. Patterson			NOV 18 2015 1230	J. Boyd, TARL			NOV 18 2015 1230	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			Date/Time	Received By			Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By			Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-015

TestAmerica Job ID: 300-1594-1
 SDG: WC0619

Client Sample ID: B33L47**Lab Sample ID: 300-1594-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	590	D	8.2	4.1	mg/L	100		300.0	Total/NA

Client Sample ID: B33L51**Lab Sample ID: 300-1594-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	1900	D	41	21	mg/L	500		300.0	Total/NA

Client Sample ID: B33L55**Lab Sample ID: 300-1594-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	830	D	41	21	mg/L	500		300.0	Total/NA

Client Sample ID: B33L59**Lab Sample ID: 300-1594-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	2600	D	41	21	mg/L	500		300.0	Total/NA

Client Sample ID: B33L63**Lab Sample ID: 300-1594-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	1400	D	41	21	mg/L	500		300.0	Total/NA

Client Sample ID: B33L67**Lab Sample ID: 300-1594-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	200	D	41	21	mg/L	500		300.0	Total/NA

Client Sample ID: B33L71**Lab Sample ID: 300-1594-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	2000	D	41	21	mg/L	500		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-015

TestAmerica Job ID: 300-1594-1
SDG: WC0619

Client Sample ID: B33L47

Date Collected: 11/18/15 11:33

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	590	D	8.2	4.1	mg/L			11/18/15 19:58	100

Client Sample ID: B33L51

Date Collected: 11/18/15 11:59

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	1900	D	41	21	mg/L			11/18/15 20:43	500

Client Sample ID: B33L55

Date Collected: 11/18/15 10:32

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	830	D	41	21	mg/L			11/18/15 20:58	500

Client Sample ID: B33L59

Date Collected: 11/18/15 10:08

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	2600	D	41	21	mg/L			11/18/15 21:13	500

Client Sample ID: B33L63

Date Collected: 11/18/15 08:57

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	1400	D	41	21	mg/L			11/18/15 21:28	500

Client Sample ID: B33L67

Date Collected: 11/18/15 09:35

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	200	D	41	21	mg/L			11/18/15 21:43	500

Client Sample ID: B33L71

Date Collected: 11/18/15 10:59

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-7

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	2000	D	41	21	mg/L			11/18/15 21:58	500

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2050/5
Matrix: Water
Analysis Batch: 2050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/18/15 16:39	1

Lab Sample ID: LCS 300-2050/6
Matrix: Water
Analysis Batch: 2050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	6.53	6.89		mg/L		106	80 - 120

Lab Sample ID: 300-1594-1 MS
Matrix: Water
Analysis Batch: 2050

Client Sample ID: B33L47
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	590	D	65.3	669	D	mg/L		123	75 - 125

Lab Sample ID: 300-1594-1 DU
Matrix: Water
Analysis Batch: 2050

Client Sample ID: B33L47
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Orthophosphate as P	590	D	601	D	mg/L		2	20

HPLC/IC

Analysis Batch: 2050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1594-1	B33L47	Total/NA	Water	300.0	
300-1594-1 DU	B33L47	Total/NA	Water	300.0	
300-1594-1 MS	B33L47	Total/NA	Water	300.0	
300-1594-2	B33L51	Total/NA	Water	300.0	
300-1594-3	B33L55	Total/NA	Water	300.0	
300-1594-4	B33L59	Total/NA	Water	300.0	
300-1594-5	B33L63	Total/NA	Water	300.0	
300-1594-6	B33L67	Total/NA	Water	300.0	
300-1594-7	B33L71	Total/NA	Water	300.0	
LCS 300-2050/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2050/5	Method Blank	Total/NA	Water	300.0	



Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-015

TestAmerica Job ID: 300-1594-1
 SDG: WC0619

Client Sample ID: B33L47

Date Collected: 11/18/15 11:33

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	10 mL		2050	11/18/15 19:58	CPM	TAL RCH

Client Sample ID: B33L51

Date Collected: 11/18/15 11:59

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		500	10 mL		2050	11/18/15 20:43	CPM	TAL RCH

Client Sample ID: B33L55

Date Collected: 11/18/15 10:32

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		500	10 mL		2050	11/18/15 20:58	CPM	TAL RCH

Client Sample ID: B33L59

Date Collected: 11/18/15 10:08

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		500	10 mL		2050	11/18/15 21:13	CPM	TAL RCH

Client Sample ID: B33L63

Date Collected: 11/18/15 08:57

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		500	10 mL		2050	11/18/15 21:28	CPM	TAL RCH

Client Sample ID: B33L67

Date Collected: 11/18/15 09:35

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		500	10 mL		2050	11/18/15 21:43	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-015

TestAmerica Job ID: 300-1594-1
 SDG: WC0619

Client Sample ID: B33L71

Date Collected: 11/18/15 10:59

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		500	10 mL		2050	11/18/15 21:58	CPM	TAL RCH

Client Sample ID: B33L47

Date Collected: 11/18/15 11:33

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-1 DU

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	10 mL		2050	11/18/15 20:28	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-2050/6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		2050	11/18/15 16:54	CPM	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-2050/5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		2050	11/18/15 16:39	CPM	TAL RCH

Client Sample ID: B33L47

Date Collected: 11/18/15 11:33

Date Received: 11/18/15 12:30

Lab Sample ID: 300-1594-1 MS

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	10 mL		2050	11/18/15 20:13	CPM	TAL RCH

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-015

TestAmerica Job ID: 300-1594-1
SDG: WC0619

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131



Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-015

TestAmerica Job ID: 300-1594-1
SDG: WC0619

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1594-1	B33L47	Water	11/18/15 11:33	11/18/15 12:30
300-1594-2	B33L51	Water	11/18/15 11:59	11/18/15 12:30
300-1594-3	B33L55	Water	11/18/15 10:32	11/18/15 12:30
300-1594-4	B33L59	Water	11/18/15 10:08	11/18/15 12:30
300-1594-5	B33L63	Water	11/18/15 08:57	11/18/15 12:30
300-1594-6	B33L67	Water	11/18/15 09:35	11/18/15 12:30
300-1594-7	B33L71	Water	11/18/15 10:59	11/18/15 12:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1594-1

SDG Number: WC0619

Login Number: 1594

List Number: 1

Creator: Bock, Julie A

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

